

Claims

1. A dosing device (1) for feeding an infusion product comprising a rotary drum type conveyor means (2) positioned between a web (3) of filter material and a hopper (4) for containing the infusion product; the drum type conveyor means (2) having a plurality of radial cells (5) made in them for containing the infusion product and in which there slide piston type dosing means (6); each dosing piston (6) being driven axially by respective eccentric cam actuating means (7) between two end positions, one of which corresponds to a top dead centre (PMS) where each dosing cell (5) faces the hopper (4) in order to receive a quantity of the infusion product, and the other corresponds to a bottom dead centre (PMI) where the dosing cell (5) faces the web (3) of filter material in order to discharge the quantity of infusion product onto the web (3) of filter material; the device being characterised in that between the actuating means (7) and each piston (6) there are crank mechanisms (8) designed to act coaxially on the piston (6) in such a way as to enable the piston (6) to move in a direction that is perfectly aligned with a longitudinal axis (Z) of the respective dosing cell (5).

2. The device according to claim 1, characterised in that the eccentric cam actuating means (7) comprise at least one cam track (7a) in which there runs a cam follower (7b) for each piston (6); the crank mechanisms (8) comprising a first crank (10) connected at one end to the cam follower (7b) and, at the other end, to a transmission shaft (11); the transmission shaft (11) being rigidly attached to a first end of a second crank (13) that is in turn connected at its other end to a first end (14a) of a connecting control rod (14); the connecting rod (14) being linked to the piston (6).

3. The device according to claim 2, characterised in that a first end of the second crank (13) is rigidly attached to the

shaft (11) in such a way as to enable transmission of motion between the cam follower (7b) and the piston (6).

5 4. The device according to claim 2 or 3, characterised in that the end of the second crank (13) that is linked to the connecting rod (14) is fork-shaped so as to hold the end of the connecting rod (14) on both sides; the connecting rod (14) being coupled with the second crank (13) through a first pin (16) that passes through a respective hole (17) made in said forked end.

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5. The device according to claim 4, characterised in that the connecting rod (14) is linked to the piston (6) by a second, transversal pin (18) which is housed in a respective hole (19) made in the piston (6) and which engages the respective end of the
15 connecting rod (14).